In the Claims:

A complete listing of the claims with proper claim identifiers is set forth below.

- 1. (Withdrawn) A gene therapy vector, comprising:
- a first polynucleotide encoding a gene for B subunit of a cytolethal distending toxin; and
- a second polynucleotide encoding an antisense oligonuoleotide that inhibits expression of a sense oligonucleotide encoding a DNA repair protein;

wherein the first and second polynucleotides are operably linked to an inducible promoter.

- 2. (Withdrawn) The gene therapy vector of claim 1, wherein the inducible promoter is a heat shock promoter.
- 3. (Withdrawn) The gene therapy vector of claim 1, wherein the inducible promoter is a segment of a heat shock promoter that is strictly inducible by heat shock.
 - 4. (Currently Amended) A gene therapy vector, comprising:
- a first polynucleotide encoding a gene for B subunit of a cytolethal distending toxin; and
- a second polynucleotide encoding an antisense oligonuoleotide that inhibits expression of a sense oligonucleotide encoding a DNA repair protein;

wherein the first and second polynucleotides are operably linked to an inducible promoter:

wherein the inducible promoter is a heat shock promoter;

wherein the inducible promoter is a segment of a heat shock promoter that is strictly inducible by heat shock; and

The gene therapy vector of claim 3, wherein the inducible promoter has a nucleotide sequence of SEQ ID 7.

- 5. (Withdrawn) The gene therapy vector of claim 1, wherein the gene is selected from the group consisting of *H. ducreyi* cdtB, *C. jejuni* cdtB, and *E. coli* cdtB.
- 6. (Withdrawn) The gene therapy vector of claim 1, wherein the gene is *E. coli* cdtB.
- 7. (Currently Amended) The gene therapy vector of claim 4, wherein the gene is E. coli cdtB; and

The gene therapy vector of claim 6, wherein the gene has a nucleotide sequence of SEQ ID 5.

8. (Withdrawn) The gene therapy vector of claim 1, wherein the second polynucleotide encodes an antisense oligonucleotide that inhibits expression of a sense oligonucleotide encoding a protein involved in the non-homologous end-joining DNA repair mechanism.

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9. (Withdrawn) The gene therapy vector of claim 8, wherein the protein is

ku70.

10. (Currently Amended) The gene therapy vector of claim 4, wherein the

second polynucleotide encodes an antisense oligonucleotide that inhibits expression of

a sense oligonucleotide encoding a protein involved in the non-homologous end-joining

DNA repair mechanism;

wherein the protein is ku70; and

The gene therapy vector of claim 9, wherein the second polynucleotide is

complimentary to nucleotide sequence SEQ ID 6.

11. (Withdrawn) The gene therapy vector of claim 1, wherein the vector is a

member selected from the group consisting of plasmids, phages, phagemids, viruses,

and artificial chromosomes.

12. (Withdrawn) The gene therapy vector of claim 11, wherein the vector is a

viral vector.

13. (Withdrawn) The gene therapy vector of claim 12, wherein the vector is

amember selected from the group consisting of papovirus, lentivirus, adenovirus,

vaccinia virus, adeno-associated virus, herpes virus, and retrovirus.

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- 14. (Withdrawn) An adenoviral vector for performing cytolethal gene therapy comprising a polynucleotide having a first nucleotide sequence encoding a cdtB gene, a second nucleotide sequence encoding an antisense oligonucleotide that inhibits expression of ku70, and a heat shock promoter that is strictly inducible by heat and is positioned to promote expression of the first and second nucleotide sequences.
- 15. (Withdrawn) The adenoviral vector of claim 14, wherein the cdtB gene has nucleotide sequence SEQ ID 5.
- 16. (Withdrawn) The adenoviral vector of claim 14, wherein the second nucleotide sequence is complimentary to nucleotide sequence SEQ ID 6.
- 17. (Withdrawn) The adenoviral vector of claim 14, wherein the heat shock promoter has nucleotide sequence SEQ ID 7.
- 18. (Withdrawn) A method of conducting cytolethal gene therapy, comprising:

 providing a vector comprising a first polynucleotide encoding a gene for a

 B subunit of a cytolethal distending toxin, a second polynucleotide encoding an

 antisense oligonucleotide that inhibits expression of a sense oligonucleotide encoding a

 DNA repair protein, and a heat shock promoter operably linked to the first and second
 polynucleotides;

delivering the vector to a desired cell; and

elevating the temperature of the cell above normal body temperature such that the promoter transcribes the first and second polynucleotides.

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- 19. (Withdrawn) The method of claim 18, wherein the heat shock promoter is a segment of a heat shock promoter that is strictly inducible by heat shock.
- 20. (Withdrawn) The method of claim 19, wherein the heat shock promoter has nucleotide sequence SEQ ID 7.
 - 21. (Withdrawn) The method of claim 20, wherein the gene is E.coli cdtB.
- 22. (Withdrawn) The method of clam 21, wherein the gene has nucleotide sequence SEQ ID 5.
 - 23. (Withdrawn) The method of clam 21, wherein the vector is a viral vector.
- 24. (Withdrawn) The method of claim 23, wherein the vector is a member selected from the group consisting of papovirus, lentivirus, adenovirus, vaccinia virus, adeno-associated virus, herpes virus, and retrovirus.
- 25. (Withdrawn) The method of claim 18, wherein delivering the vector comprises directly infusing the vector into a tissue comprising the cell.
 - 26. (Withdrawn) The method of claim 18, wherein the cell is a cancerous cell.

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27. (Withdrawn) The method of claim 26, wherein the cancerous cell is

contained within a solid tumor.

28. (Withdrawn) The method of claim 18, wherein elevating the temperature

of the cell comprises elevating the temperature of the cell to a temperature between

approximately 38 and 45° C.

29. (Withdrawn) The method of claim 28, wherein the elevated temperature is

approximately 41°C.

30. (Withdrawn) The method of claim 30, further comprising maintaining the

elevated temperature of the cell for between approximately 1 and 72 hours.

31. (Withdrawn) A method of conducting cytolethal gene therapy, in a tumor,

comprising:

delivering to said tumor a polynucleotide encoding a cdtB gene, an

antisense oligonucleotide that inhibits expression of ku70, and a heat shock promoter

that is strictly inducible by heat and is positioned to promote expression of the cdtB

gene and the antisense oligonucleotide; and

elevating the temperature of said tumor.

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32. (Withdrawn) A gene therapy vector, comprising:

a first polynucleotide encoding a gene for a B subunit of a cytolethal distending toxin, wherein the gene is *E. coli* cdtB;

a second polynucleotide encoding an antisense oligonucleotide that inhibits expression of a sense oligonucleotide encoding a DNA repair protein; and

wherein the first and second polynucleotides are operably linked to an inducible promoter.